

IN THE SPECIFICATION:

Please substitute the following paragraph for the paragraph starting at page 2, line 21 and ending at page 3, line 19.

In the E method, each of subspace obtained by space division is called a cell, and generation and deletion of cell is repeated in accordance with an appropriate rule. The structural members are given as a set of finally existing cells. As only two status, whether a cell exists or not, are permitted, clear structural members can be obtained. Further, as differential information of evaluation functional is not used, there is no trap in local optimal solution. Accordingly, the method is effective in a case where the evaluation functional is polymodal. In patent document 1, provided is a framed structural member optimization designing apparatus using a genetic search method which is a kind of the E method. The problem of conventional technical art, which has required trial computation based on accumulated know-how and which cannot be applied to an actual designing problem having a large number of design variables, is solved by the optimization designing apparatus, by the following arrangement. That is, an approximation optimization computer using an approximation equation for discrete design variable data such as frame member cross-sectional size, and a detailed optimization computer using the design variable data are provided, and these two computers are combined to a framed structural member optimization designing apparatus.

Please substitute the following paragraph for the paragraph starting at page 8, line 1 and ending at line 8.

The present invention has been made in consideration of the above drawbacks of the conventional art, and provides a structure optimal designing method and its apparatus for execution of computation without particular processing even when a global stiffness matrix becomes singular, thereby ~~simplify~~ simplifying a program and further ~~reduce~~ reducing the amount of computation.